Right to Know Hazardous Substance Fact Sheet

Emergency Responders Quick Reference

Common Name: **LEAD THIOCYANATE**

Synonyms: Lead Dithiocyanate; Lead Sulfocyanate
CAS No: 592-87-0
Molecular Formula: $Pb(SCN)_2$
RTK Substance No: 1115
Description: White to yellow crystalline powder

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health **0 - Fire** **1 - Reactivity** **DOT#:** UN 2291 **ERG Guide #:** 151 **Hazard Class:** 6.1 (Poison)	Extinguish fire using an agent suitable for type of surrounding fire. **Lead Thiocyanate** itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including *Lead Oxides*, *Sulfur Dioxides, Nitrogen Oxides* and *Cyanides*. Use water spray to keep fire-exposed containers cool.	**Lead Thiocyanate** may react explosively with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE). **Lead Thiocyanate** is not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); STRONG REDUCING AGENTS (such as SODIUM, MAGNESIUM, and ALUMINUM); METAL HYDRIDES; and FINELY POWDERED METALS.

SPILL/LEAKS

Isolation Distance: 25 to 50 meters (80 to 160 feet)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up.

Toxic to aquatic organisms.

Hazardous to the environment and persists in the environment.
DO NOT wash into sewer.

PHYSICAL PROPERTIES

Odor Threshold:	Odorless
Flash Point:	Not combustible
LEL:	N/A
UEL:	N/A
Specific Gravity:	**3.82 at 68°F (20°C)**
Melting Point:	**374°F (190°C) Decomposes**
Water Solubility:	Slightly soluble

EXPOSURE LIMITS

OSHA:	0.05 mg/m^3, 8-hr TWA (as *Lead*)
NIOSH:	0.05 mg/m^3, 10-hr TWA (as *Lead*)
ACGIH:	0.05 mg/m^3, 8-hr TWA (as *Lead*)
IDLH LEVEL:	100 mg/m^3 (as *Lead*)

PROTECTIVE EQUIPMENT

Gloves:	Nitrile, Latex, Rubber
Coveralls:	DuPont *Tyvek*®
Boots:	Latex, Butyl, Neoprene
Respirator:	≤0.5 mg/m^3 - N100 ≤2.5 mg/m^3 - full facepiece APR with High Efficiency filters ≤50 mg/m^3 - full facepiece powered APR with High Efficiency filters ≤100 mg/m^3 – Pressure-demand supplied-air >100 mg/m^3 – Pressure-demand SCBA

HEALTH EFFECTS

Eyes:	Irritation
Skin:	No Information
Acute:	Headache, irritability, upset stomach, and weakness
Chronic:	Inorganic *Lead* compounds may cause lung, brain, stomach, and kidney cancer in humans. Metallic taste, colic, muscle cramps Damage to the nervous system

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Remove contaminated clothing. Wash contaminated skin with soap and water.

Transfer to a medical facility.